

AMENDMENTS TO THE CLAIMS

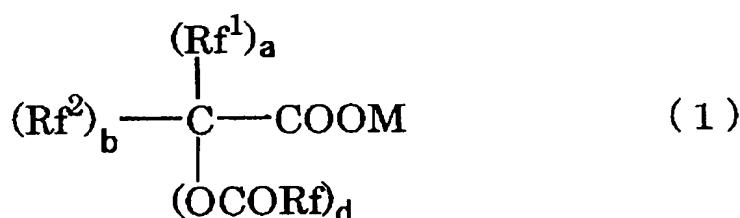
This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A method of producing a fluoropolymer, wherein polymerization using a carboxylate ester bond-containing carboxylic acid derivative as a surfactant in an aqueous medium to give the fluoropolymer is conducted, said carboxylate ester bond-containing carboxylic acid derivative has a carboxylate ester bond and $-COOM$ (M representing H, NH_4 , Li, Na or K), said carboxylate ester bond may optionally be substituted by fluorine atom.

2. (original): The method of producing a fluoropolymers according to Claim 1, wherein the carboxylate ester bond is an acyloxy group represented by $RfCOO^-$ (Rf representing a fluoroalkyl group containing 1 to 20 carbon atoms or an ether oxygen-containing fluoroalkyl group containing 1 to 20 carbon atoms) or an alkoxy carbonyl group represented by $RfOCO^-$ (Rf being as defined above).

3. (currently amended): The method of producing a fluoropolymers according to Claim 1 or 2, wherein the carboxylate ester bond-containing carboxylic acid derivative is a 2-acyloxy carboxylic acid derivative represented by the general formula (1):



Preliminary Amendment
Based on PCT/JP2004/010214

wherein Rf^1 and Rf^2 are the same or different and each represents H, F, a fluoroalkyl group containing 1 to 20 carbon atoms or an ether oxygen-containing fluoroalkyl group containing 1 to 20 carbon atoms, a and b each represents an integer of 0 to 2 and d represents an integer of 1 to 3 provided that a, b and d satisfy the relation $a + b + d = 3$; Rf and M are as defined above, and Rf^1 , Rf^2 and Rf are the same or different.

4. (currently amended): The method of producing a fluoropolymer according to Claim 1-~~or~~ 2,

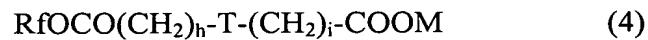
wherein the carboxylate ester bond-containing carboxylic acid derivative is a dicarboxylic acid half ester (A) represented by the general formula (3):



wherein Rf^5 represents $-C_fH_{2f-1}$ or $-C_gH_{2g-2-}$ (in which f represents an integer of 1 to 6 and g represents an integer of 2 to 6) and Rf and M are as defined above.

5. (currently amended): The method of producing a fluoropolymer according to Claim 1-~~or~~ 2,

wherein the carboxylate ester bond-containing carboxylic acid derivative is a dicarboxylic acid half ester (B) represented by the general formula (4):



wherein T represents $-CRf^4=CH-$, $-CH=CRf^4-$ or $-CHRF^4-$ (in which Rf^4 represents F, a fluoroalkyl group containing 1 to 20 carbon atoms or an ether oxygen-containing fluoroalkyl

group containing 1 to 20 carbon atoms), h and i are the same or different and each represents an integer of 0 to 3, and Rf and M are as defined above.

6. (currently amended): The method of producing a fluoropolymer according to Claim 1,~~2, 3, 4 or 5,~~

wherein a 0.1% (by mass) aqueous solution of the carboxylate ester bond-containing carboxylic acid derivative has a surface tension of 30 to 70 Nm/m as measured at 25°C by Wilhelmy method.

7. (currently amended): The method of producing a fluoropolymer according to Claim 1,~~2, 3, 4, 5 or 6,~~

wherein the carboxylate ester bond-containing carboxylic acid derivative can generate a hydrolyzate upon hydrolysis,

the number of fluorine atom-bound carbon atoms in said hydrolyzate is not more than 6.

8. (original): The method of producing a fluoropolymer according to Claim 7,
wherein the number of fluorine atom-bound carbon atoms is not more than 4.

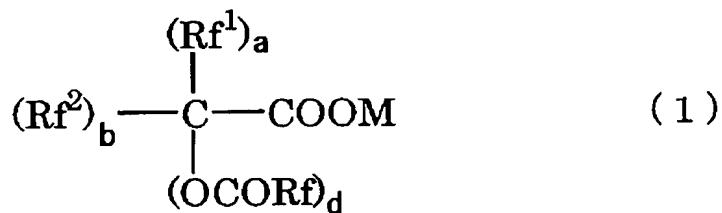
9. (currently amended): The method of producing a fluoropolymer according to Claim 1,~~2, 3, 4, 5, 6, 7 or 8,~~

wherein the carboxylate ester bond-containing carboxylic acid derivative is added at a level of 0.0001 to 15% by mass of the aqueous medium.

10. (original): A fluoropolymer aqueous dispersion which comprises a particle comprising a fluoropolymer, a carboxylate ester bond-containing carboxylic acid derivative and an aqueous medium,

wherein said carboxylate ester bond-containing carboxylic acid derivative has a carboxylate ester bond and $-COOM$ (M representing H , NH_4 , Li , Na or K),
said carboxylate ester bond may optionally be substituted by fluorine atom.

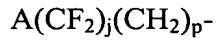
11. (currently amended): A 2-acyloxycarboxylic acid derivative which is represented by the general formula (1):



wherein Rf^1 and Rf^2 are the same or different and each represents H , F , a fluoroalkyl group containing 1 to 20 carbon atoms or an ether oxygen-containing fluoroalkyl group containing 1 to 20 carbon atoms, Rf represents a fluoroalkyl group containing 1 to 20 carbon atoms or an ether oxygen-containing fluoroalkyl group containing 1 to 20 carbon atoms, M represents H , NH_4NH_4 , Li , Na or K , a and b each represents an integer of 0 to 2 and d represents an integer of 1 to 3 provided that a , b and d satisfy the relation $a + b + d = 3$; Rf^1 , Rf^2 and Rf are the same or different.

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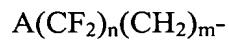
12. (original): The 2-acyloxycarboxylic acid derivative according to Claim 11,
wherein Rf^1 and Rf^2 are the same or different and each is



wherein A represents H or F, j represents an integer of 1 to 6 and p represents an integer of 0 to 3.

13. (currently amended): The 2-acyloxycarboxylic acid derivative according to Claim 11-~~or~~
~~42~~,

wherein Rf is



wherein A represents H or F, n represents an integer of 1 to 4 and m represents an integer of 0 to 3, or

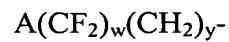


wherein X represents F or CF_3 , q represents an integer of 0 to 3, r represents an integer of 0 to 2, t represents an integer of 1 to 3 and A is as defined above.

14. (original): The 2-acyloxycarboxylic acid derivative according to Claim 11,
wherein Rf^1 and Rf^2 are the same or different and each is



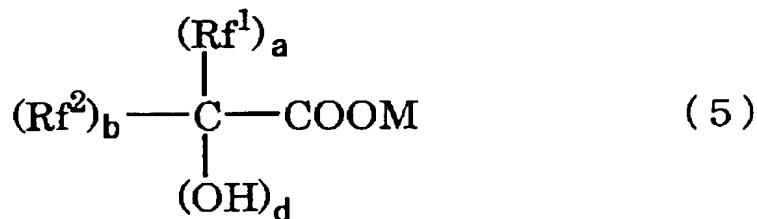
wherein A represents H or F and u represents an integer of 1 to 3, and Rf is



wherein A is as defined above, w represents an integer of 2 to 4 and y represents an integer of 0 to 1.

15. (currently amended): A surfactant which comprises the 2-acyloxycarboxylic acid derivative according to ~~Claim 11, 12, 13 or 14~~.

16. (currently amended): A method of producing a 2-acyloxycarboxylic acid derivative, which comprises producing the 2-acyloxycarboxylic acid according to ~~Claim 11, 12, 13 or 14~~ by esterifying a 2-hydroxycarboxylic acid derivative represented by the general formula (5):



wherein Rf^1 and Rf^2 are the same or different and each represents H, F, a fluoroalkyl group containing 1 to 20 carbon atoms or an ether oxygen-containing fluoroalkyl group containing 1 to 20 carbon atoms, M represents H, NH_4 , Li, Na or K, a and b each represents an integer of 0 to 2 and d represents an integer of 1 to 3 provided that a, b and d satisfy the relation $a + b + d = 3$, and an alkanoyl compound represented by the general formula (6):



wherein Rf represents a fluoroalkyl group containing 1 to 20 carbon atoms or an ether oxygen-containing fluoroalkyl group containing 1 to 20 carbon atoms, Z represents $-\text{OM}^1$ or Y (M^1 representing H, NH_4 , Li, Na or K and Y representing F or Cl).